



Ops Parameters and Configuration Control

- There are many operations parameters that affect science.
- Who is responsible and how are the parameters controlled?
- This involves all the mission elements:
 - instruments (I(S)OCs, instrument science teams)
 - project scientists, GSFC
 - users committee, swg
 - users committee will also discuss this topic at the spring meeting
 - GIs in their proposals, potentially
- Start discussion today to surface issues
 - no decisions or specific proposals today, but a framework for discussion
 - [more fun than discussing data rights]



Considerations

- Year 1 vs subsequent years
 - during year 1, instrument teams need flexibility to control and understand their instruments efficiently, yet the parameter selections will affect the first-year data set released to the public.
 - in subsequent years, changes should be less frequent.
- There are categories of parameters, with overlapping interests
 - onboard instrument parameters, *e.g.*,
 - zero suppression thresholds, hardware and software trigger thresholds, onboard science algorithm parameters
 - observatory parameters, *e.g.*,
 - earth avoidance angles, sky survey parameters, repoint dwell time
 - ground processing parameters
- Some parameters must be broadly visible but are not generally under group control. Examples include
 - instrument SAA boundaries (instrument teams define)
 - data dump times (mission defines)



Responsibilities

- For discussion:
 - let the element (LAT, GBM, mission) with the primary expertise take responsibility for recommending and archiving the parameters. Mission is responsible to provide web-accessible list of (or pointers to) all the parameters, their definitions, and their values over time.
 - GUC and SWG advise on overall policy (which parameters are controlled, target ranges, process).
 - Science Operations Oversight Group (SOOG) meets ~weekly to
 - review weekly performance and Ops issues
 - approve changes on limited controlled parameters list; be informed about all the others
 - in many cases, particularly early in the mission, the controlled values will be managed in a range approved by the SOOG: the responsible element will have freedom to change the parameter value within that range without CCR action.
 - in year 1, SOOG consists of
 - Project Scientist or Deputy (chair)
 - Two instrument PIs or their delegates
 - GUC chair or his/her delegate
 - GSSC lead
 - MOC lead
 - 2 Instrument I(S)OC leads



Other issues/questions

- How (and how much) to connect data products with parameter values and configuration versions?
- Other issues?